

WHAT IS CLAIMED IS:

1. An overwrite method of an optical disc,
comprising the step of performing a replacement recording
5 on a data area within the optical disc with overwrite-
requested data in a specific recording-completed area
within the optical disc in a sequential recording mode
(SRM) wherein a logical overwrite is executed to maintain
continuity of a user data area by the replacement recording.

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2. The overwrite method of claim 1, wherein if the
overwrite in an open SRR area within the optical disc is
requested, the replacement recording is executed from NWA
within an open SRR.

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3. The overwrite method of claim 1, wherein if the
overwrite in a closed SRR area within the optical disc is
requested, the replacement recording is executed within a
spare area.

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4. The overwrite method of claim 3, wherein if the
overwrite in the closed SRR area within the optical disc is
requested, the spare area for the replacement recording is
an outer spare area (OSA).

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5. The overwrite method of claim 4, wherein the outer spare area (OSA) is allocated on disc initialization.

6. The overwrite method of claim 5, wherein a size of the outer spare area (OSA) allocated on the disc initialization is $N \times 256$ clusters where $N \leq 768$.

7. The overwrite method of claim 3, wherein if the closed SRR area is located on an inner disc circumference, the spare area for the replacement recording is an inner spare area (ISA).

8. The overwrite method of claim 7, wherein the closed SRR area located on the inner disc circumference is an area for recording file system information.

9. The overwrite method of claim 1, wherein after execution of the overwrite, location information of the overwrite-requested area and the replacement-recorded area is recorded as management information.

10. An overwrite method of an optical disc, comprising the step of performing a replacement recording on a spare area within the optical disc with overwrite-requested data in a specific recording-completed area

within the optical disc in a random recording mode (RRM) wherein a size of the spare area for allocation is determined on disc initialization for the replacement recording.

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11. The overwrite method of claim 10, wherein the spare area comprises an inner spare area (ISA) on an inner circumference of the optical disc and an outer spare area (OSA) on an other circumference of the optical disc.

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12. The overwrite method of claim 11, wherein a size of the outer spare area (OSA) allocated on the disc initialization is $N \times 256$ clusters where $N \leq 768$.

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13. The overwrite method of claim 11, wherein a size of the inner spare area (ISA) allocated on the disc initialization is fixed.

14. In performing a recording on a write-once optical disc in a recording mode selected from the group consisting of a sequential recording mode (SRM) and a random recording mode (RRM), a write-once optical disc overwriting method comprising the steps of:

determining a replacement recording area for an overwrite according to the recording mode if the overwrite

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on a user data area within the optical disc is requested;
and

executing a logical overwrite.

5 15. The overwrite method of claim 14, wherein if
the recording mode is the sequential recording mode (SRM),
the replacement recording is performed on NWA within the
user data area or a spare area.

10 16. The overwrite method of claim 14, wherein if
the recording mode is the random recording mode (RRM), the
replacement recording is performed on a spare area.

15 17. A recording/reproducing apparatus for a write-
once optical disc, comprising:

a control unit delivering a recording command
requesting a recording execution on a specific area; and

a recording/reproducing unit deciding whether the
specific area is a recording-completed area or a non-
20 recorded area, the recording/reproducing unit performing a
replacement recording on another area within a data area if
the specific area is the recording-completed area, the
recording/reproducing unit executing the replacement
recording by differentiating the replacement-recorded area
25 according to a disc recording mode.